

GILA RIVER BASIN

09480000 SANTA CRUZ RIVER NEAR LOCHIEL, AZ

LOCATION--Lat 31°21'19", long 110°35'20", in SW_{1/4} sec. 11, T.24 S., R.17 E. (unsurveyed), Santa Cruz County, Hydrologic Unit 15050301, on southern border of Spanish land grant of San Rafael, near left bank on downstream side of pier of bridge on county road, 1.7 mi upstream from international boundary, and 2.5 mi northeast of Lochiel.

DRAINAGE AREA--82.2 mi².

PERIOD OF RECORD--Jan. 1949 to current year.

REVISED RECORDS--WSP 1733: 1951. WDR AZ-94-1: 1993.

GAGE--Water-stage recorder. Elevation of gage is 4,620 ft above sea level, from topographic map.

REMARKS--Records fair. Small diversions for irrigation of 200 acres above station, mostly by pumping from ground water.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 12,000 ft³/s Oct. 9, 1977 and Aug. 15, 1984, gage height, 10.21 ft and 10.2 ft, respectively, from rating curve extended above 1,600 ft³/s on basis of slope-area measurement at gage height 10.21 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 500 ft³/s and (or) maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	Aug. 5.....	2000	*256	*8.91

Minimum daily discharge, no flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.05	0.08	0.19	0.30	0.47	0.29	0.24	0.14	0.03	0.00	0.00	0.00
2	0.05	0.09	0.19	0.29	0.47	0.29	0.27	0.14	0.03	0.00	0.00	0.00
3	0.05	0.10	0.19	0.30	0.48	0.30	0.30	0.14	0.03	0.00	0.00	0.00
4	0.05	0.10	0.19	0.30	0.46	0.29	0.26	0.13	0.02	0.00	0.00	0.00
5	0.04	0.11	0.19	0.31	0.45	0.28	0.26	0.11	0.03	0.00	8.1	0.00
6	0.05	0.11	0.20	0.32	0.43	0.28	0.25	0.10	0.02	0.00	0.59	0.00
7	0.07	0.12	0.20	0.32	0.42	0.25	0.25	0.11	0.02	0.00	0.16	0.00
8	0.06	0.12	0.20	0.32	0.40	0.25	0.24	0.11	0.01	0.00	0.13	0.00
9	0.06	0.13	0.20	0.33	0.40	0.24	0.24	0.11	0.01	0.00	0.11	0.00
10	0.07	0.13	0.20	0.33	0.39	0.24	0.26	0.11	0.00	0.00	0.09	0.00
11	0.04	0.14	0.20	0.34	0.38	0.24	0.26	0.10	0.01	0.00	0.09	0.00
12	0.04	0.16	0.21	0.34	0.37	0.24	0.25	0.10	0.01	0.00	0.09	0.00
13	0.04	0.16	0.21	0.34	0.36	0.22	0.24	0.10	0.01	0.00	0.11	0.00
14	0.04	0.15	0.21	0.37	0.36	0.22	0.24	0.09	0.00	0.01	0.13	0.00
15	0.06	0.16	0.21	0.37	0.35	0.21	0.24	0.09	0.00	0.01	0.11	0.00
16	0.07	0.16	0.21	0.36	0.34	0.19	0.24	0.09	0.00	1.4	0.11	0.00
17	0.05	0.16	0.21	0.37	0.33	0.19	0.24	0.09	0.00	0.06	0.10	0.00
18	0.05	0.16	0.22	0.38	0.32	0.20	0.24	0.08	0.00	0.04	0.10	0.00
19	0.05	0.16	0.22	0.38	0.31	0.21	0.23	0.06	0.00	0.03	0.09	0.00
20	0.06	0.17	0.23	0.39	0.31	0.21	0.23	0.04	0.00	0.03	0.08	0.00
21	0.06	0.17	0.23	0.39	0.30	0.21	0.22	0.02	0.00	0.03	0.07	0.00
22	0.07	0.18	0.24	0.40	0.30	0.21	0.21	0.00	0.00	0.03	0.07	0.00
23	0.07	0.18	0.23	0.41	0.32	0.21	0.21	0.01	0.00	0.03	0.06	0.00
24	0.07	0.18	0.24	0.41	0.30	0.21	0.21	0.02	0.00	0.04	0.06	0.00
25	0.06	0.18	0.25	0.41	0.30	0.21	0.21	0.02	0.00	0.03	0.05	0.00
26	0.06	0.18	0.26	0.42	0.30	0.22	0.20	0.01	0.00	0.02	0.03	0.00
27	0.07	0.18	0.26	0.42	0.30	0.22	0.19	0.01	0.00	0.02	0.01	0.00
28	0.07	0.18	0.27	0.43	0.30	0.22	0.18	0.01	0.00	0.03	0.00	0.00
29	0.06	0.19	0.27	0.44	0.30	0.22	0.16	0.02	0.00	0.02	0.00	0.00
30	0.06	0.19	0.28	0.45	--	0.22	0.15	0.03	0.00	0.01	0.00	0.00
31	0.07	--	0.29	0.46	--	0.22	--	0.04	--	0.00	0.00	--
TOTAL	1.77	4.48	6.90	11.40	10.52	7.21	6.92	2.23	0.23	1.84	10.54	0.00
MEAN	0.06	0.15	0.22	0.37	0.36	0.23	0.23	0.07	0.01	0.06	0.34	0.00
MAX	0.07	0.19	0.29	0.46	0.48	0.30	0.30	0.14	0.03	1.4	8.1	0.00
MIN	0.04	0.08	0.19	0.29	0.30	0.19	0.15	0.00	0.00	0.00	0.00	0.00
MED	0.06	0.16	0.21	0.37	0.35	0.22	0.24	0.09	0.00	0.01	0.08	0.00
AC-FT	3.5	8.9	14	23	21	14	14	4.4	0.5	3.6	21	0.00
CFSM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2004, BY WATER YEAR (WY)

MEAN	4.57	1.25	1.81	4.01	1.74	1.75	0.86	0.43	0.32	7.52	14.3	4.55
MAX	77.0	16.2	17.8	94.7	18.0	34.2	8.68	2.77	2.83	69.4	187	44.3
(WY)	1978	2001	1979	1993	1985	1983	1993	1983	1973	1950	1984	1964
MIN	0.00	0.00	0.00	0.02	0.03	0.01	0.00	0.00	0.00	0.01	0.00	0.00
(WY)	1954	1954	1963	1963	1963	1963	1954	1954	1949	2003	1962	1953

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1949 - 2004

ANNUAL TOTAL	64.82	64.04										
ANNUAL MEAN	0.18	0.17										
HIGHEST ANNUAL MEAN										29.0	1984	
LOWEST ANNUAL MEAN										0.17	2004	
HIGHEST DAILY MEAN	1.3	Aug 14								1770	Jan 18	1993
LOWEST DAILY MEAN	0.00	Jun 19								0.00	May 19	1949
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 19								0.00	May 19	1949
ANNUAL RUNOFF (AC-FT)	129		127							2630		
ANNUAL RUNOFF (CFSM)	0.002		0.002							0.044		
10 PERCENT EXCEEDS	0.37		0.34							4.0		
50 PERCENT EXCEEDS	0.17		0.13							0.47		
90 PERCENT EXCEEDS	0.02		0.00							0.00		